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United States Patent [19]

Meyer

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[54] **CIRCUIT FOR DETECTING THE LOCKED CONDITION OF PSK OR QAM**

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375/327; 375/329

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329

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[57] ABSTRACT

A method for detecting a locked condition of a demodulator of at least one signal that may have discrete levels defining a constellation of nominal points in a plane. The method includes the steps of defining reference areas about the nominal points, a reference area being separated from another by a band or an angular sector crossing the origin of the constellation plane, and indicating a locked condition if the ratio of points occurring in the reference areas is above the probability for points to occur in the reference area, when the demodulator is wrongly adjusted.

6 Claims, 2 Drawing Sheets

